

## Alignment of Nulake Year 12 Mathematics Workbook to Qatar Grade 11F Standards

### Overall features:

- Differentiated questions at 3 levels – Achievement/Merit/Excellence supports differentiated teaching.
- There are good notes and examples on use of graphic calculators –useful for teachers who have not had pd
- Advice on customizing the workbook for individual learning styles is included.
- Hints on how to study and how to use the book are included for teachers.
- The book is cheap – should be QR60 or thereabouts so it is feasible that every student have one as their basic workbook.
- The language is appropriate.
- The authors are open to writing specific sections to meet local conditions if numbers are guaranteed – e.g. a section on vectors could be included if requested.
- Highlighted notes and worked examples are well set out.
- Whereas many schools seem to send textbooks home for the students to use for homework (and they remain there unused for the year) and at the same time many students do not bring their workbooks to class, this combines the 2 books in one.

### Alignment to Grade 11F Course

Nulake Chapter	11F Unit	Standards covered (from the unit)	Standards omitted	Notes
1.0 Algebra	11F-01, Aspects of 11F-07 Aspects of 11F-08 Aspects of 11F-10	11F 3.1, 3.2, 11F 6.7 11F 4.4, 4.5, 4.6, 4.7 11F 5.10, 5.11, 1.2	11F 3.3, 4.2	These were covered in Nulake Year 11 Chapter 7
2.0 Graphs	11F-03 11F-06 Aspects of 11F-10 Aspects of 11F-13	11F 5.9, 1.5, 11F 5.1, 5.7 11F 5.12, 5.13, 1.2 11F 5.16	11F 5.4 11F 5.8 (this is covered in Nulake Year 13 Statistics and Modeling Chapter 7	Extension 12F 5.2 is covered in Chapter 9 Also see Chapter 4
3.0 Calculus	Aspects of 11F-06,	11F 5.3		
4.0 Coordinate Geometry	Aspects of 11F-06, Aspects of 11F-07 Aspects of 11F-13	11F 5.7 11F 6.6 11F 5.14, 5.16		
5.0 Statistics	11F-05 11F-11	11F 8.1, 8.2, 1.11, 8.4, 8.5 11F 8.3, 8.6, 9.1,		This was also covered extensively in

		<b>1.7, 1.12, 1.14</b>		<b>Nulake Year 11 Chapter 5</b>
<b>6.0 Probability</b>				
<b>7.0 Sequences</b>	<b>11F-08</b>	<b>11F 4.1, 1.2, 4.7</b>		
<b>8.0 Practical Trigonometry</b>	<b>11F-04 Aspects of 11F-14</b>	<b>11F 6.3, 6.5, 11F 6.13,</b>	<b>11F 6.4</b>	<b>Aspects of 11 6.4 were covered in Nulake Year 11 Chapter 8</b>
<b>9.0 Trigonometric Equations</b>	<b>Aspects of 11F-09</b>	<b>11F 6.12, 6.8 (in part)</b>	<b>11F 6.10 (this was covered in Nulake Year 11 Chapter 8)</b>	
			<b>11F-12</b>	<b>This was covered in part in Nulake Year 11 Chapter 9</b>
			<b>11F-14 7.2, 7.1,</b>	<b>7.2 was covered in part in Nulake Year 11 Chapter 8, 7.1 was covered in Nulake Year 11 Chapter 3</b>